Attorney Docket No. 81880.0136 Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims</u>:

- 1-16 (Canceled)
- 17. (Currently Amended) The A corrosion resistant member according to elaim 16 comprising a Y₂O₃ sintered material that includes 99.9% by weight or more Y in terms of Y₂O₃, wherein

said Y₂O₃ sintered material comprises at least metal element of AE, wherein AE is a group II element of the periodic table, and

wherein a difference in crystal grain size between the surface and the inside region of said Y_2O_3 sintered material is not larger than 30 μ m.

- 18. (Previously Presented) The corrosion resistant member according to claim 17, wherein said Y₂O₃ sintered material further comprises any one of Si, Fe and Al.
- 19. (Currently amended) The corrosion resistant member according to claim 16 17, wherein said Y₂O₃ sintered material further comprises any of a group of metallic elements consisting of Si, Fe, Al and AE (these metallic elements will hereinafter be collectively referred to as metal elements M), in concentrations of 300 ppm of less for Si in terms of SiO₂, 50 ppm or less for Fe in terms of Fe₂O₃, 100 ppm or less Al in terms of Al₂O₃ and 350 ppm or less AE, wherein AE is a group II

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element of the periodic table, in terms of AEO, wherein AEO is a compound

containing the AE and O.

20. (Previously Presented) The corrosion resistant member according to

claim 19, wherein the content ratio of any of the metal elements M contained at and

near the surface to that contained deep inside of said Y2O3 sintered material is in a

range from 0.2 to 5.

21. (Currently amended) The corrosion resistant member according to claim

16 17, wherein said Y₂O₃ sintered material shows dielectric loss tangent of 2 x 10

3 or less in a frequency range from 10 MHz to 5 GHz.

22. (Currently amended) The corrosion resistant member according to claim

 $\frac{16}{17}$, wherein the carbon content in said Y_2O_3 sintered material is 100 ppm by

weight or less.

23. (Currently amended) The corrosion resistant member according to claim

16 17, wherein said Y₂O₃ sintered material has void ratio of 5% or less.

24. (Currently amended) The corrosion resistant member according to claim

46 17, wherein said Y₂O₃ sintered material has density of 4.8 g/cm³ or higher.

25-27. (Canceled).

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